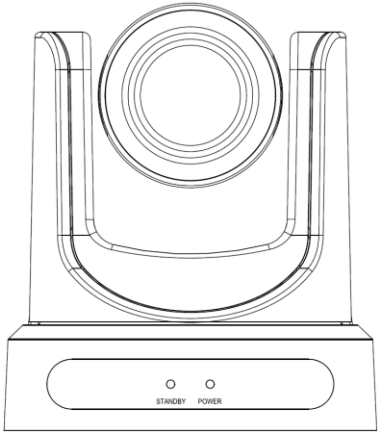
AVIPAS

Model:AV-1051

HD Video Conferencing IP-Camera



User Manual

Please Read this User Manual throughout before using.

www.avipas.com

Preface

Thanks for using this HD Video Conferencing Camera.

This manual introduces the function, installation and operation of the HD camera. Prior to installation and usage, please read the manual thoroughly.

Precautions

This product can only be used in the specified conditions in order to avoid any damage to the camera:

- Don’t subject the camera to rain or moisture.
- Don’t remove the cover. Otherwise, you may get an electric shock. In case of abnormal operation, contact the authorized engineer.
- Never operating under unspecified temperature, humidity and power supply.
- Please use the soft dry cloth to clean the camera. If the camera is very dirty, clean it with diluted neuter detergent; do not use any type of solvents, which may damages the surface.

Note

This is class A production. Electromagnetic radiation at the specific frequency may affect the image quality Of TV in home environment.

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Note

- **Electric Safety**

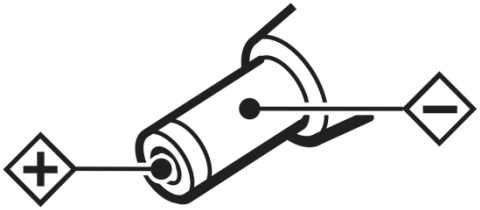
  Installation and operation must accord with electric safety standard.

- **Caution to transport**

  Avoid stress, vibration and soakage in transport, storage and installation.

- **Polarity of power supply**

The power supply of the product is +12V, the max electrical current is 2A .Polarity of the power supply plug drawing as follows.



- **Careful of installation**

Do not grasp the camera head when carrying the camera. Don't turn camera head by hand. Doing so may result in mechanical damage.

Don't apply in corrosive liquid, gas or solid environment to avoid damaging the cover which is made up of plastic material.

To make sure no obstacle in rotation range.

Never power on before installation is not completed.

- **Don't dismantle the camera**

We are not responsible for any unauthorized modification or dismantling.

CAUTION!

The specific frequency of electromagnetic field may affect the image of the camera!

Supplied Accessories

When you unpack, check that all the supplied accessories are included:

Camera 1PCS

AC power adaptor 1PCS

Power cord 1PCS

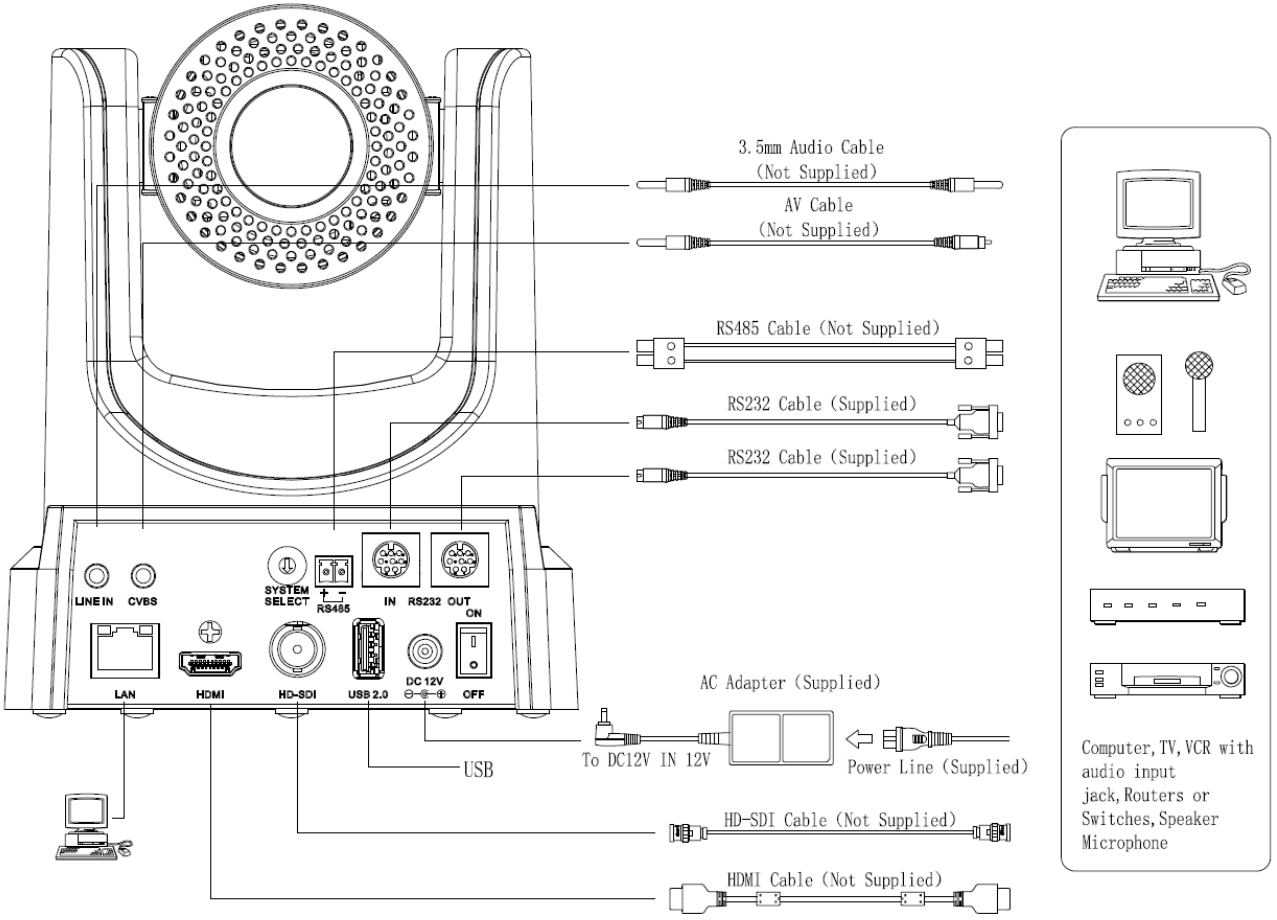
RS232 cable 1PCS

Remote controller..... 1PCS

User manual 1PCS

Quick Start

Step1. Please check connections are correct before starting



Step2. Setting of the system select switch

The option of video format:

VIDEO SYSTEM			
0	-	8	-
1	-	9	-
2	1080i60	A	-
3	1080i50	B	-
4	720p60	C	-
5	720p50	D	576i
6	1080p30	E	480i
7	1080p25	F	-

CAUTION:

a. After changing the switch, you need to restart the camera to take effect.

Step3. Press the Switch ON/OFF button on the rear of the camera, the power lamp light.

Step4. Pan-Tilt will rotate to the maximum position of top right after the camera started, then it return to the center, the process of initialization is finished. (Note: If the position preset 0 has been stored, the position preset 0 will be called up after initialization)

Step5. (Optional) If you want to restore the factory default settings, Press [MENU] button to display the OSD menu. Select the item [MENU] -> [RESTORE DEFAULT] -> [Restore]. Set the value [Yes], press [HOME] button to restore the factory default settings.

RESTORE DEFAULT

▶Restore Yes

◀▶ Change Value

[Home] OK

[Menu] Back

Features

- **1080P**

  Panasonic 1/2.7 inch, 2.07 million effective pixels CMOS sensor, maximum output 1920x1080 image with highest frame rate 30fps.

- **Low-light**

  High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions,picture can still keep clean and clear. SNR up to 55dB.

- **HD digital interface**

  Support HDMI output, HD-SDI interface, the effective transmission distance up to 100 meters. Supports SD CVBS output.

- **20x Optical + 16x Digital Zoom**

  Use TAMRON high quality super telephoto lens,support 20x optical zoom,and 16x digital zoom.

- **Remote Control**

  Using RS232/485 interface, parameters of the camera can be remote controled by the high-speed communications.

- **Network encoded output**

  Support multi-channel of video streams output.

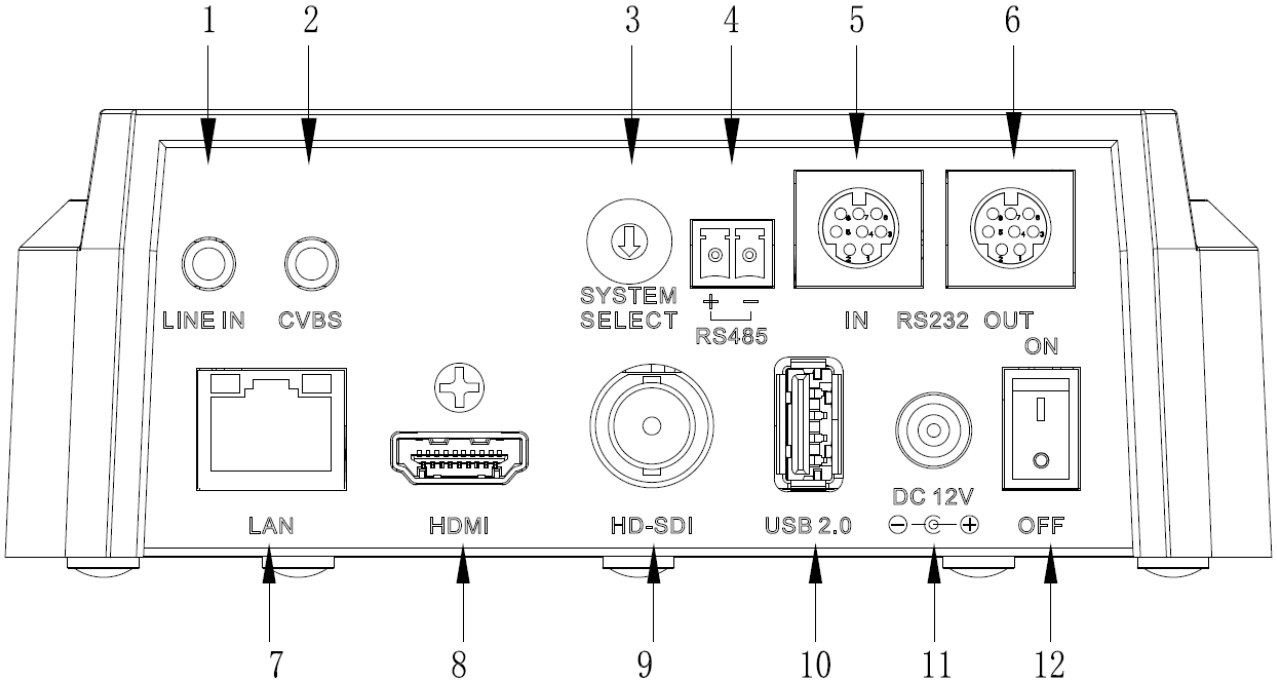
Product Specification

Camera	
Video system	1080i/60,1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, NTSC, PAL
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8
Digital Zoom	16x
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/25s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K,5000K/Outdoor, 6500K_1,6500K_2,6500K_3,One-Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
S/N	≥55dB
Horizontal Angle	60.7° ~ 3.36°
Vertical Angle	34.1° ~ 1.89°
Horizontal Rotation	±170°
Vertical Rotation	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
Ceiling Installation	Support
Number of Preset	255
Preset Accuracy	0.1°
IPC Video Features	
Video coding standard	H264
Video Stream	Main stream, Sub stream

Main stream resolution	1920X1080,1280X720
Sub stream resolution	720X480,320X240
Bit Rate	128K,256K,384K,512K,768K,1024K,1536K,2048K,3072K,4096K,5120K,6144K,8192K Optional, customize
Bit Rate Type	Variable rate, fixed rate
Audio standard	AAC
Audio rate	96K,128K,256k
Support protocols	TCP/IP, HTTP, DDNS, RTSP, PPPoE, SMTP, UPnP, SNMP,FTP(Optional)
Maximum Frame	Format PAL:1-25, format NTSC:1-30
I Frame Gap	Customizable,(must be greater than or equal to the maximum frame rate)
Video Format	PAL,NTSC
Web Stream	Main stream, sub stream
Web video size	Appropriate size, original size, full-screen
Input/Output Interface	
HD Output	1xHDMI: Verision 1.3
	1xHD-SDI: BNC Type, 800mVp-p, 75Ω, Along to SMPTE 292M standard
SD Output	1xCVBS: RCA jack, 1Vp-p, 75Ω
Network interface	1xRJ45: 10M/100M Adaptive Ethernet ports
Audio interface	1-ch 3.5mm audio interface, LINE IN
USB	1xUSB2.0: A type jack
Communication interface	1xRS-232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1xRS-232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1xRS-485: 2pin Phoenix port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power jack	JEITA type (DC IN 12V)
Generic Specification	
Input Voltage	DC 12V

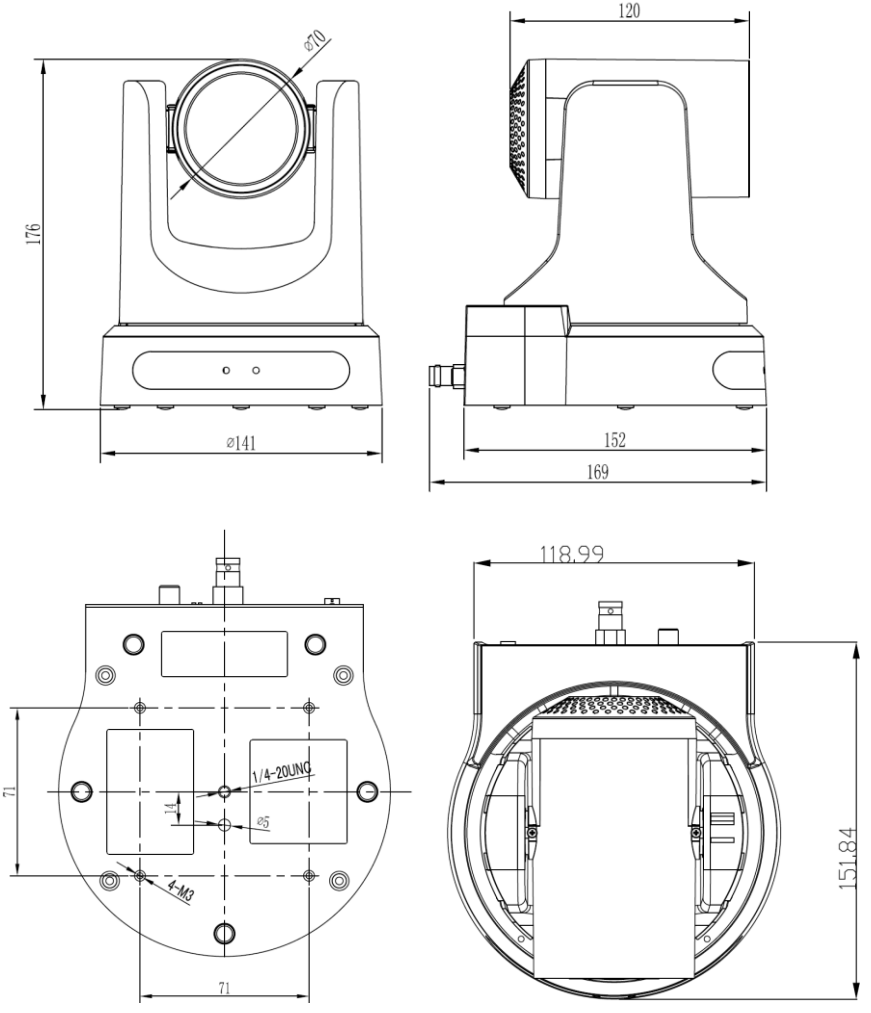
Current consumption	1.0A (Max)
Operating Temperature	-5°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Power	12W(Max)
Dimensions	142mm x 169mm x 176mm
Weight	1.5Kg

Main Unit

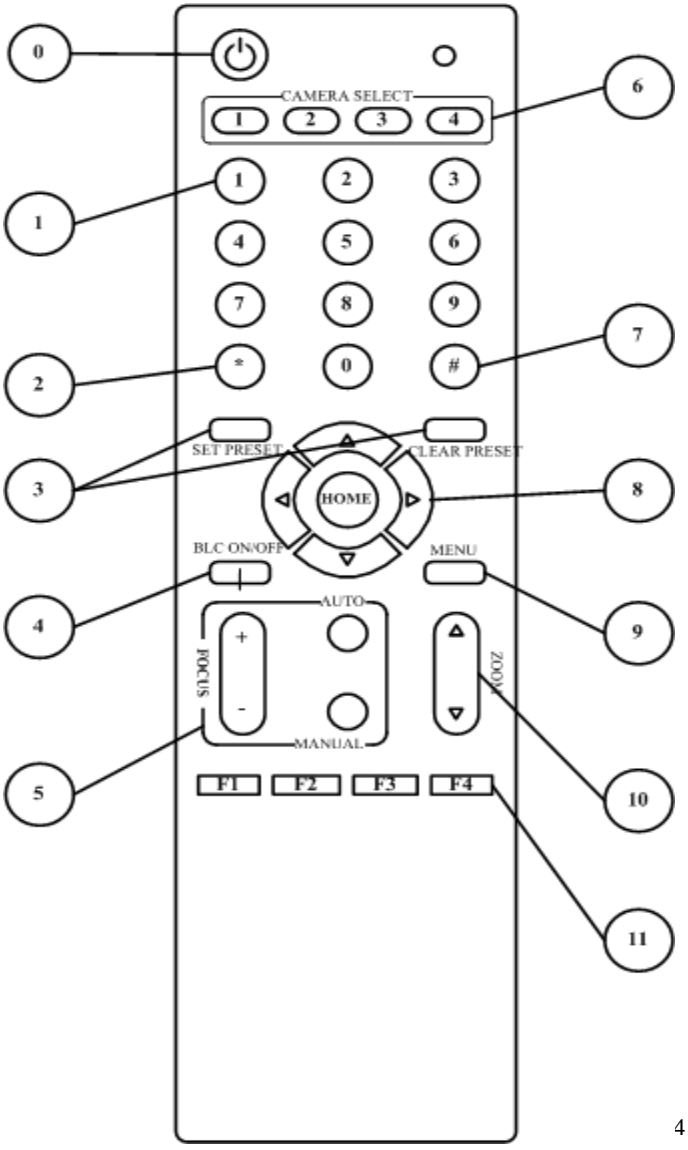


1. Audio LINE IN Interface
2. CVBS Interface
3. System select switch
4. RS485 jack
5. RS232 IN jack
6. RS232 OUT jack
7. Network Interface
8. HDMI Interface
9. HD-SDI Interface
10. USB2.0
11. DC 12V jack
12. Power switch

Size



IR Remote Controller Explanation



0. Standby Button

Press this button to enter standby mode. Press it again to enter normal mode.

(Note: Power consumption in standby mode is approximately half of the normal mode)

1. Position Buttons

To set preset or call preset

2. * Button

3. Set/Clear Preset Buttons

Set preset: Store a preset position

[SET PRESET] + Numeric button (0-9): Setting a corresponding numeric key preset position

Clear preset: Erase a preset position

[CLEAR PRESET] + Numeric button (0-9)

Or: [*]+[#]+[CLEAR PRESET]: Erase all the preset individually

4. BLC (Backlight Compensation) Button

BLC ON/OFF: Press this button to enable the backlight compensation. Press it again to disable the backlight compensation. (NOTE: Effective only in auto exposure mode)

Note: If a light behind the subject, the subject will

become dark. In this case, press the backlight ON / OFF button. To cancel this function, press the backlight ON / OFF button.

5. Focus Buttons

Used for focus adjustment.

Press [AUTO] adjust the focuses on the center of the object automatically. To adjust the focus manually, press the [MANUAL] button, and adjust it with [Focus＋] (Focus on far object) and [Focus－] (Focus on near object)

6. Camera Select Buttons

Press the button corresponding to the camera you want to operate with the remote controller.

7. # Button

8. Pan/Tilt Control Buttons

Press arrow buttons to perform panning and tilting. Press [HOME] button to face the camera back to front

9. Menu Setting

Menu button: Press this button to enter or exit the OSD menu

10. Zoom Buttons

Zoom▲: Zoom In

Zoom▼: Zoom Out

11. Set Camera IR Address Buttons

[*]+[＃]+[F1]: Address1

[*]+[＃]+[F2]: Address2

[*]+[＃]+[F3]: Address3

[*]+[＃]+[F4]: Address4

USE IR Remote Controller

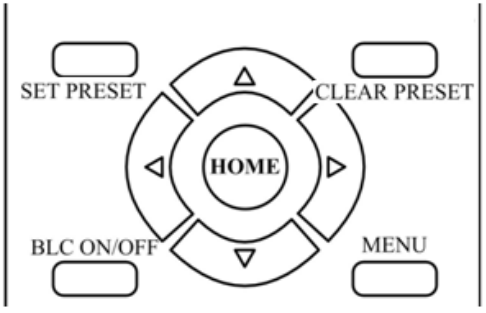
When the camera is working, you can use remote controller to perform panning, tilting, zooming and focusing, store and call back preset positions.

Button Instruction：

1. In this instruction, ‘press the button’ means the press and relax the two actions. Such as ‘press [HOME] button’ means to press the [HOME] key and then relax action, and a special note will be given if a hold down for more than one second is required.

2. When a button-combination is required, do it in sequence. For example, ‘[*] + [#] + [F1]’means press [*] first and then press [#] and press [F1] at last.

1. Pan/Tilt Control



Move up: Press [▲]

Move down: Press [▼]

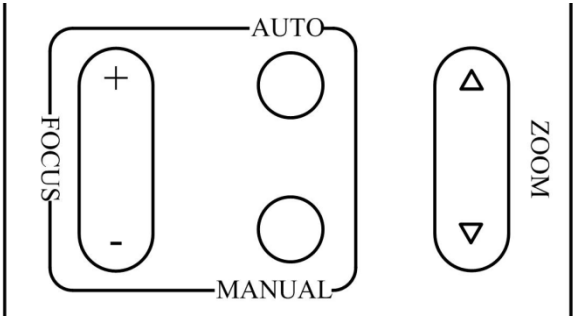
Move left: Press [◀]

Move right: Press [▶]

Face the camera back to front: Press [HOME]

Press and hold the up/down/left/right button, the camera will keep rotating from slow to fast, until it run to the mechanical limit; the camera stops as soon as the button is released.

2. Zoom

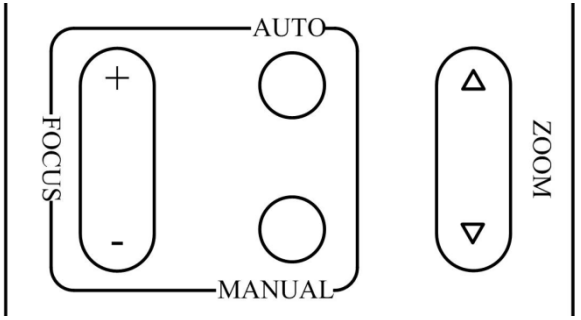


Zoom Out: press [ZOOM▼] button

Zoom In: press [ZOOM▲] button

Press and hold the button, the camera will keep zooming in or zooming out and it stops as soon as the button is released.

3. Focus Control



Focus Far: Press [FOCUS+] button (NOTE: Effective only in manual focus mode)

Focus Near: Press [FOCUS-] button (NOTE: Effective only in manual focus mode)

Press and hold the button, the action of focus continues and stops as soon as the button is released.

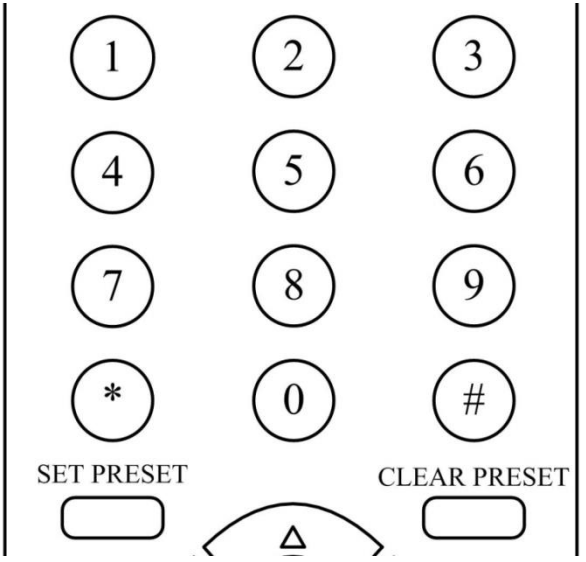
AUTO: Change focus mode to AF, adjusting the focus automatically.

MANUAL: Change focus mode to MF, adjusting the focus manually.

4. Backlight Switch

BLC ON/OFF: Press this button to enable the backlight compensation. Press it again to disable the backlight compensation. (Note: Backlight is only effective in full auto exposure mode)

5. Presets Set/Clear



1. To store a preset position: The users should press the [SET PRESET] button first and then press the numeric button 0-9.

10 preset positions in total are available.

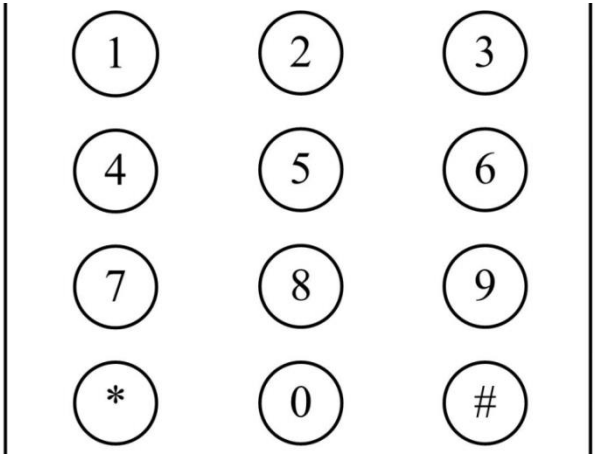
2. To erase the memory content of a preset position: The users should press the [CLEAR PRESET] button first and then press the numeric button 0-9.

Note:

Press [*]+[#]+[CLEAR PRESET] will erase all

preset individually positions in the memory.

6. Recalling the Preset

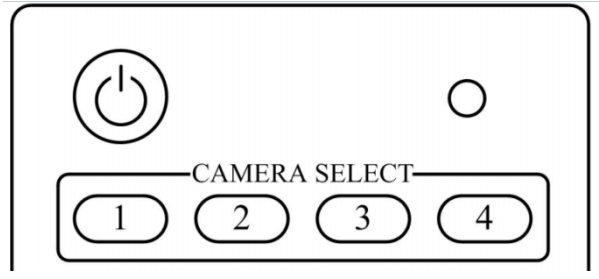


Press any of the numeric buttons 0-9 directly to recall stored preset positions and settings.

Note:

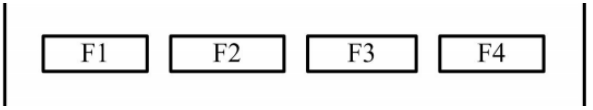
No action is executed if a relative preset position is not stored.

7. Camera Selection



Press the button corresponding to the camera you want to operate.

8. Camera IR Address Set



[*]+[＃]+[F1]: Address1

[*]+[＃]+[F2]: Address2

[*]+[＃]+[F3]: Address3

[*]+[＃]+[F4]: Address4

9. Shortcut Set

[*]+[＃]+[1]: OSD menu default English

[*]+[＃]+[3]: OSD menu default Chinese

[*]+[＃]+[4]: Default IP address

[*]+[＃]+[5]:Save OSD

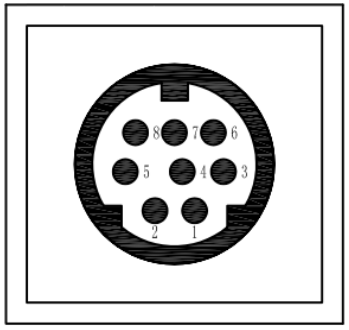
[*]+[＃]+[6]:Quickly recover the default

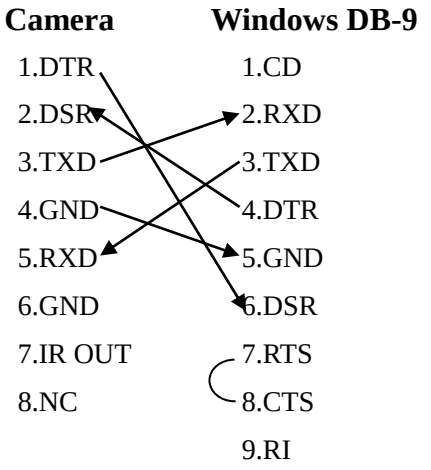
[*]+[＃]+[7]:Display the manufacturer infornation

[*]+[＃]+[8]:Look the camera version

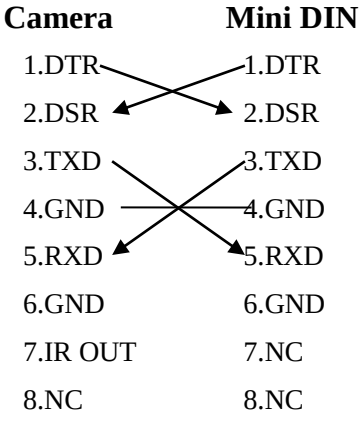
[*]+[＃]+[9]:Quickly set up inversion

RS-232 Interface

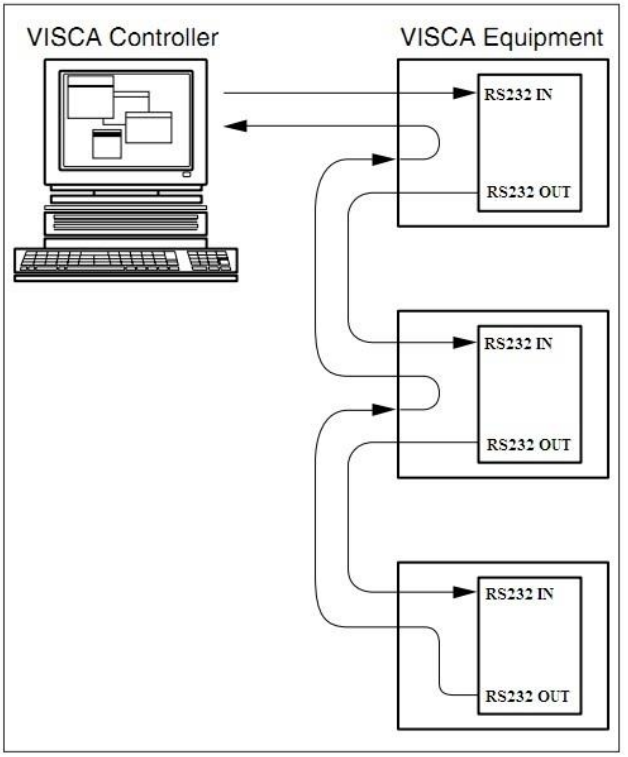




No.	Function
1	DTR
2	DSR
3	TXD
4	GND
5	RXD
6	GND
7	IR OUT
8	NC



VISCA Network Configuration



Serial Communication Control

In default working mode, the camera is able to connect to a VISCA controller with RS232C serial interface.

- RS232 Communication Control

  The camera can be controlled via RS232, the parameters of RS232C are as follows:

  Baud rate: 2400/4800/9600 bit/s.

  Start bit: 1 bit.

  Data bit: 8 bits.

  Stop bit: 1bit.

  Parity bit: none.

- RS485 Communication Control

  The camera can be controlled via RS485, Half-duplex mode:

  Baud rate: 2400/4800/9600 bit/s.

  Start bit: 1 bit.

  Data bit: 8 bits.

  Stop bit: 1bit.

  Parity bit: none.

Pan-Tilt will rotate to the maximum position of top right after the camera started, then it return to the center, the process of initialization is finished. (Note: If the position preset 0 has been stored, the position preset 0 will be called up after initialization) Then the users can control the camera with commands in the command list.

Command List

(Ignore)

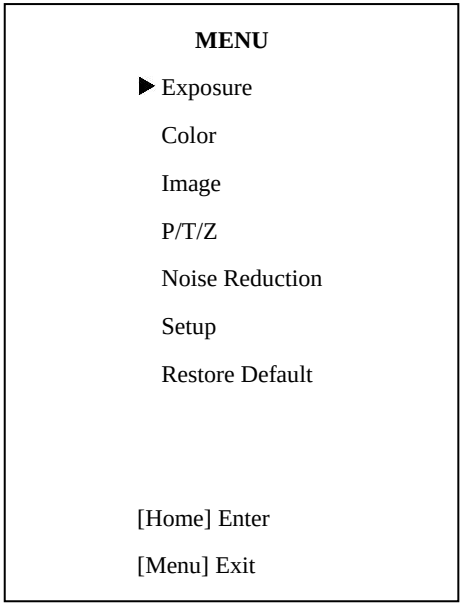
Note:

The camera serial standard VISCA/Pelco-D/Pelco-P, if the need for the secondary development, According to standard protocol to control the camera. If you need VISCA/Pelco - D/Pelco - P protocol command list in detail, please contact the manufacturer.

Menu Setting

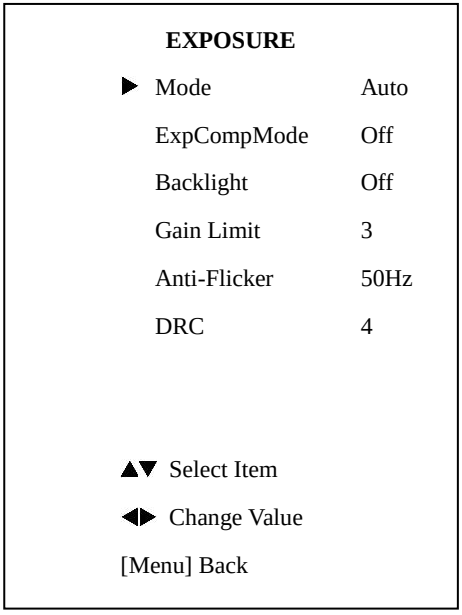
1. MENU

Press [MENU] button to display the main menu on the normal screen, using arrow button to move the cursor to the item to be set. Press the [HOME] button to enter the corresponding sub-menu.



2. EXPOSURE

Move the cursor to the Exposure item in the main menu and press [home] button, EXPOSURE menu appears, as shown in the following figure.



Mode: Exposure mode. Optional items: Auto, Manual, SAE, AAE, Bright

ExpCompMode: Exposure compensation mode, Optional items: On, Off (Effective only in Auto mode)

ExpComp: Exposure compensation value, Optional items:-7 ~ 7(Effective only in ExpComp Mode item to On)

Gain Limit: Maximum gain limit. Optional items: 0 ~ 15 (Effective only in Auto, AAE ,Bright

mode)

Backlight: Set the backlight compensation, Optional items: On, Off (Effective only in Auto mode)

DRC: DRC strength, Optional items: 0 ~ 8.

Bright: Intensity control, Optional items:00~17. (Effective only in Bright mode)

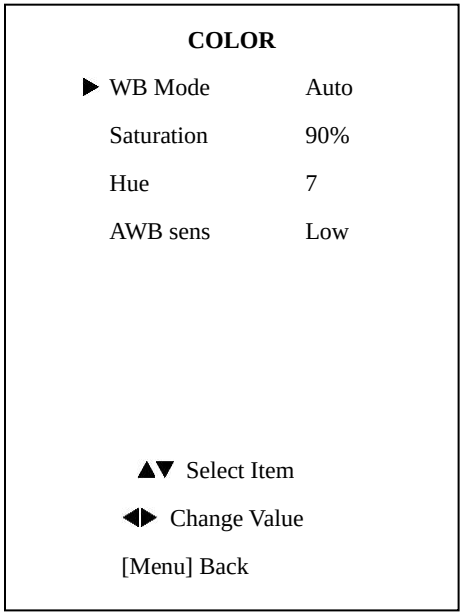
Anti-Flicker Flicker: Anti-flicker. Optional items: Off,50Hz,60Hz (Effective only in Auto, Bright mode)

Iris: Aperture value. Optional items: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close(Effective only in Manual, AAE mode)

Shutt.: Shutter value. Optional items: 1/30,1/60, 1/90,1/100,1/125,1/180,1/250,1/350,1/500,1/725,1/1000,1/1500,1/2000,1/3000,1/4000,1/6000,1/10000 (Effective only in Manual, SAE mode)

3. COLOR

Move the cursor to the Color item in the main menu and press [home] button, COLOR menu appears, as shown in the following figure.



WB-Mode: White balance mode. Optional items: Auto, 3000K/Indoor, 4000K,5000K/Outdoor, 6500K_1,6500K_2,6500K_3,One Push, Manual

RG: Red gain. Optional items: 0~255（Effective only in Manual mode）

BG: Blue gain. Optional items: 0~255（Effective only in Manual mode）

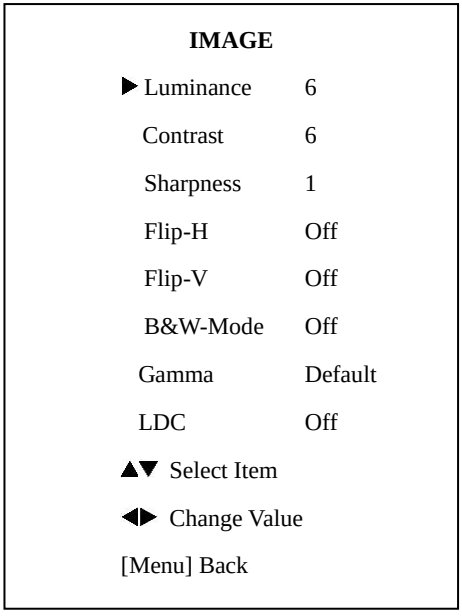
Sat.: Saturation. Optional items: 60% ~ 200%.

Hue: Chroma adjustment, Optional items:0 ~ 14

AWB sens: The white balance sensitivity, Optional items: Normal, High, Low.

4. IMAGE

Move the cursor to the Image item in the main menu and press [home] button, IMAGE menu appears, as shown in the following figure.



Luminance: Brightness adjustment. Optional items: 0 ~ 14

Contrast: Contrast adjustment. Optional items: 0 ~ 14

Sharpness: Sharpness adjustment. Optional items: Auto, 0 ~ 15

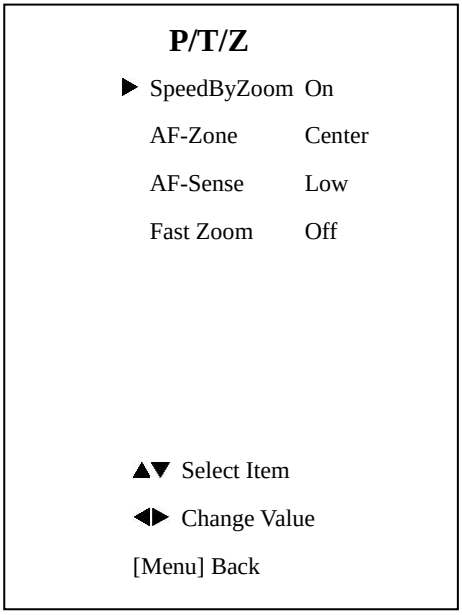
Flip-H: Image flipped horizontally. Optional items: On, Off Flip-V: Image Flip Vertical. Optional Items: On, Off

B&W-Mode: Image color. Optional items: On, Off

Gamma: Optional items: Default,0.45,0.5,0.56, 0.63

LDC: Optional items: On, Off.

5. P/T/Z



SpeedByZoom: The depth of field scale switch, Optional items: On, Off

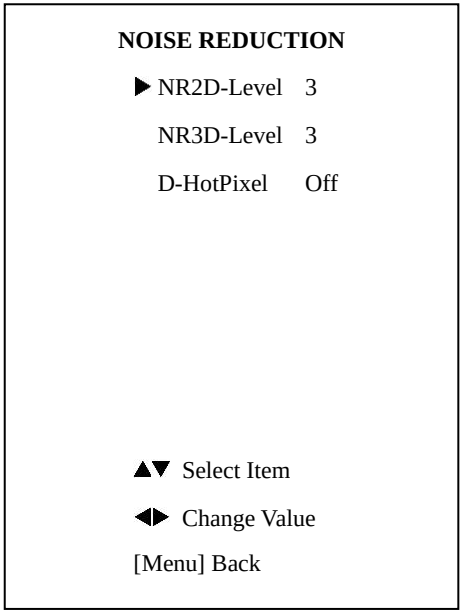
AF-Zone: Interested in focusing area, Optional items: Top, Center, Bottom

AF-Sense: Automatic focusing sensitivity options, Optional items: Low, Normal, High

Fast Zoom: Optional items: On, Off

6. NOISE REDUCTION

Move the cursor to the Noise Reduction item in the main menu and press [home] button, NOISE REDUCTION menu appears, as shown in the following figure.



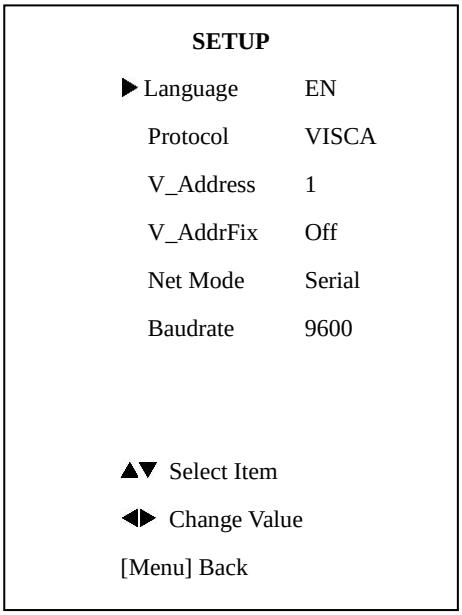
NR2D-Level: 2D noise reduction. Optional items: Off, Auto, 1 ~ 5

NR3D-Level: 3D noise reduction. Optional items: Off, 1 ~ 8

D-HotPixel: Dynamic bad points, Optional items: Off, 1 ~ 5

7. SETUP

Move the cursor to the Setup item in the main menu and press [home] button, SETUP menu appears, as shown in the following figure.



Language: menu language, Optional Items: English, Chinese

Protocol: Control protocol type. Optional items: AUTO, VISCA, PELCO-D, PELCO-P

V_Address: Protocol address, To be decided according to the agreement, AUTO, VISCA protocol Optional items: 1 ~ 7

P_D_Address: PELCO-D protocol Optional items: 0 ~ 254

P_P_Address: PELCO-P protocol Optional items: 0 ~ 31

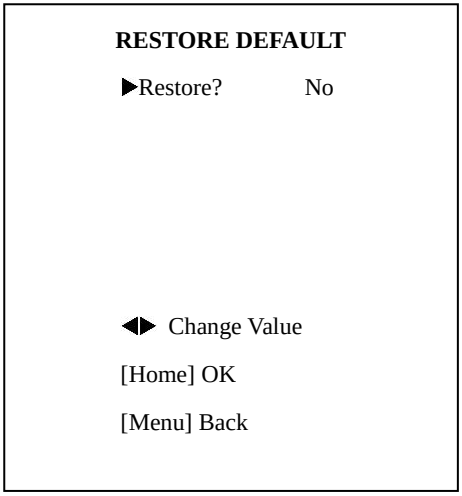
V_AddrFix: If I can change through the serial port of infrared switch, Optional items: On, Off(When set to On, useless in 88 30 01 FF Command)

Net Mode: Set the serial port control networking, Optional items: Serial, Paral

Baudrate: Serial port baud rate. Optional items: 2400, 4800, 9600

8. RESTORE DEFAULT

Move the cursor to the Restore Default item in the main menu and press [home] button, RESTORE DEFAULT menu appears, as shown in the following figure.



Restore: Confirm restore factory settings. Optional items: Yes, No

Note: Press [HOME] button to confirm, All parameter restore default, Include IR Remote address and VISICA Address

Save: Save Options. Optional items: Yes, No

Internet connection(Only the network models)

1 Operating Environment

Operating System: Windows 2000/2003/XP/ vista/7/8

Network Protocol: TCP/IP

Client PC: P4/128MRAM/40GHD/ support scaled graphics card, support DirectX8.0 or more advanced version.

2 Equipment Installation

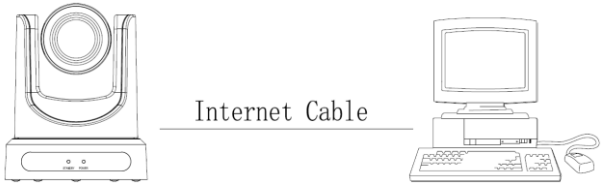
1) Connect internet camera to your internet or to your PC directly via internet cable.

2) Turn on DC12V power.

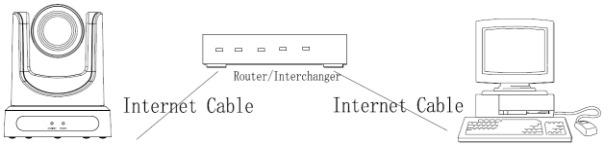
3) The orange light of internet port lit on, green light flashing, and the physical connection finished.

3 Internet Connection

Connection ways between internet camera and computer, as picture 1.1 and picture 1.2 shown:



Picture 1.1 connect by internet cable



Picture 1.2 Connect by router /interchanger

4 IP camera visited/ controlled by LAN

4.1 Setup IP address

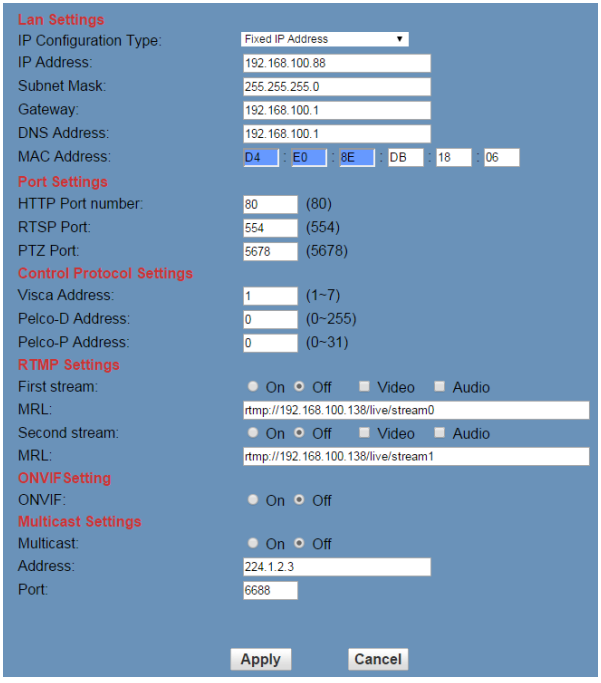
IP camera default IP address"192.168.100.88", Unknow camera IP, view as below:

Method 1: press * and # and 4 on remote controller one by one, the camera IP address will be shown on screen.

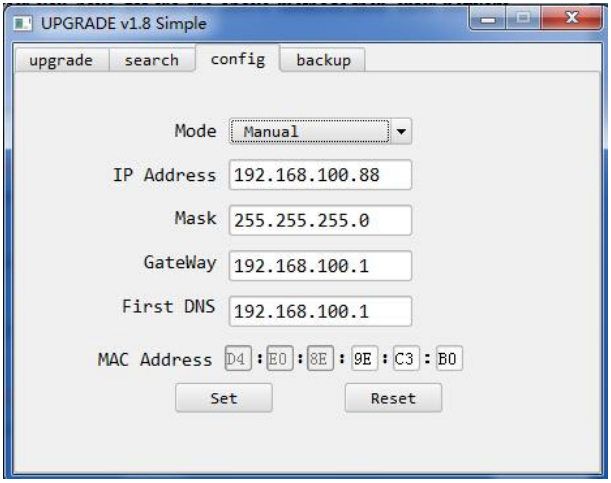
Method 2: connect camera to PC with ethernet cable, use “upgrade_En.exe” to search for IP address

Change IP address,2 methods as below:

Method 1: On web control page, find “Network”--->Change IP---->Click “Apply”----> Restart camera



Method 2: Open “upgrade_En.exe”, change IP and click “Set”. After modified, IP Camera be restart.



NOTE!

IP camera default IP address"192.168.100.88", user "admin", password "admin".

4.2 Visit/Access IP Camera

Input http://192.168.100.88 to IE (better with IE web browser, others will cause little latency),a login window pop up, input login name: admin, password: admin, shown as below:

Windows Security
The server 192.168.100.88 is asking for your user name and password. The server reports that it is from ..
Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.
User name
Password
Remember my credentials
OK
Cancel

After login, shown as below:

NOTE!

If user first time use this camera by internet (only for new user), must install a player software (VLC). Please go to VLC webside http://www.videolan.org/vlc,download and lnstall VLC (player software). After installation, login again,will show as above:

5 IP Camera accessed/controlled by WAN (internet)

5.1 Setup IPC accessed/controlled by dynamic DNS

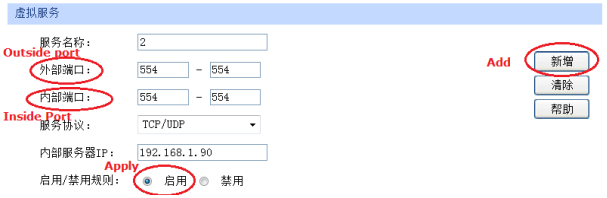
2 dynamic DNS available:

Dyndns.org,

3322.org

Router Port Mapping:

Take TP-LINK router for example, enter Router Home Page (interface page),select "Transit control"-" Transit rule"--"Virtual server"-- "Virtual service" ,add a new port number in "Outside Port" ,add a new port number in "inside port", put camera IP address to "IP address", then select "Apply" and "Add", shown as below: (sorry, we do not have English Version TP-Link here, so put the Chinese Version picture for reference, the position is the same)



5.2 Dynamic DNS visit camera

Set domain name to camera, setup the parameter, then dynamic DNS can access camera.Access link: http://hostname :port numberFor example, setup host computer name: youdomain.f3322.org, camera port number: 554,Access link should be: http://youdomain.3322.org:554.

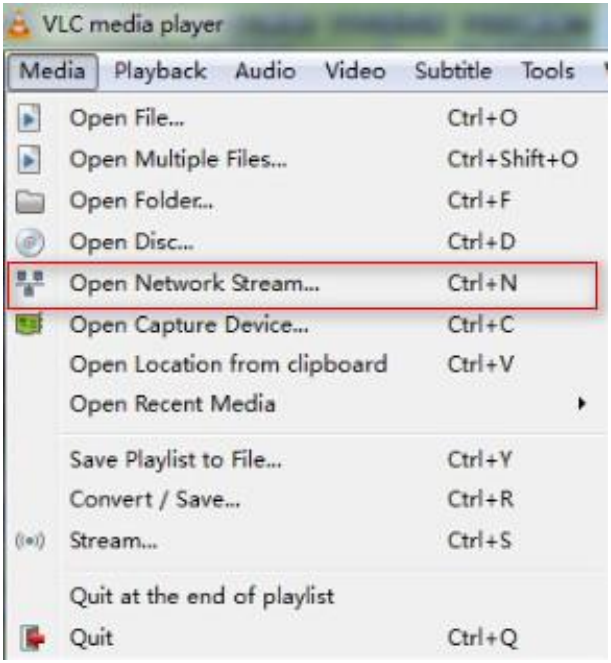
NOTE！

If camera port default as 80,then unnecessary to input port number, use host name can access camera directly .

5.3 VLC stream media player monitoring

Visit VLC media server procedure

Open VLC media player, click "Media"->"Open Network Steam", or click "Ctrl+N"; as below:



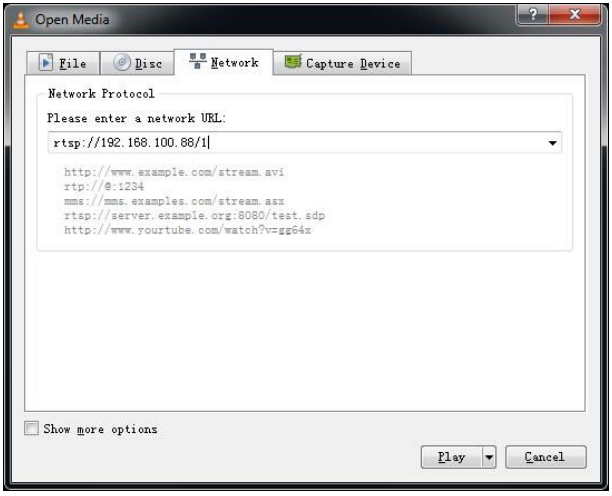
Input URL address:

rtsp://ip: port number/1 (Main stream);

rtsp://ip: port number/2 (Sub stream).

NOTE！

RTSP port number default 554.



6 IP Camera parameter setup

6.1 Homepage introduction

Menu

All pages include 2 menu bars:

Real time monitoring: displaying video image

Parameter setup: with function buttons

A. Video viewing window

Video viewing window must be same as video resolution, the bigger the resolution is, the bigger the playing area is. Double click viewing window, will show full-screen, double click again, will return to initialized size.

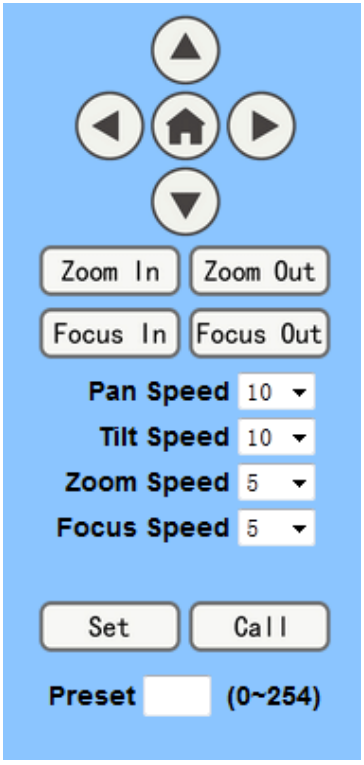
Status bar in viewing window shown as below

1） Video playback pause button: control real-time video pause, stop the last picture, click recoverable video again.

2) Audio control buttons: can set slient mode.

3) Full screen switch button.

B. PTZ Setup



1) PTZ direction control box: Up, down,

left, right, home oblique button as above

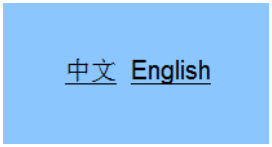
2) Rate: Vertical speed can be chosen as 1 ~ 24, horizontal direction at the rate of 1 ~ 20.

3) select corresponding speed and click direction button to realize PTZ speed up or speed down.

4) Zoom In/Zoom out: for zooming in or zooming out, Focus In/ Focus Out: Focusing on distant objects or Focusing on close objects.

5) Set/Call: When PTZ turn to expected position, can set up a number of preset that user want. click "Set" button,when PTZ turn to other position, click "Call" button,PTZ turn back to preset position.

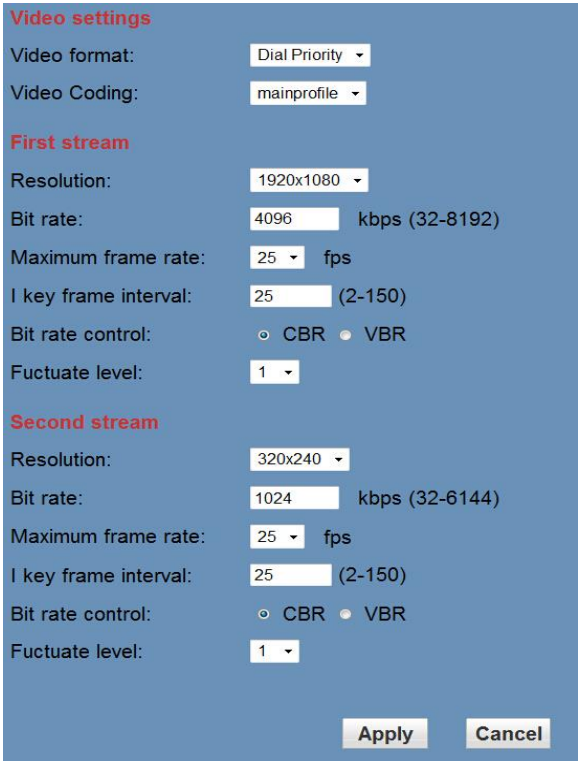
C. Language selection



Chinese/English

6.2 Media

1) Video Setup,please click "Video"



2) Video format

Support 50HZ(PAL)and 60HZ(NTSC), and Dial priority three formats.

3) Video Coding

Support baseline and mainprofile format

4) Resolution

Main bit flow support 1920x1080, 1280x720,minor bit flow support 640x360, 320x180,the bigger resolution is, the clearer the

image will be, more network bandwidth will be taken.

5) Bit Rate

User can assign bit flow/stream, normally speaking, the bigger bit flow is, the clearer the image will be. The bit allocation must combine with network bandwidth, when the network bandwidth is too narrow and the allocated bit flow is too big, will cause video signal flow not to be transmitted normally, the video effect will be worse.

6) Maximum frame rate

User can specify the size of the frame rate, generally, the frame rate greater, the image more smooth; Frame rate is smaller, the more sense of beating.

7) Bit Rate control

Code stream control way:

Constant bit rate: video coder will be coding according to preset speed

Variable bit rate: video coder will adjust the speed based on preset speed to gain the best image quality.

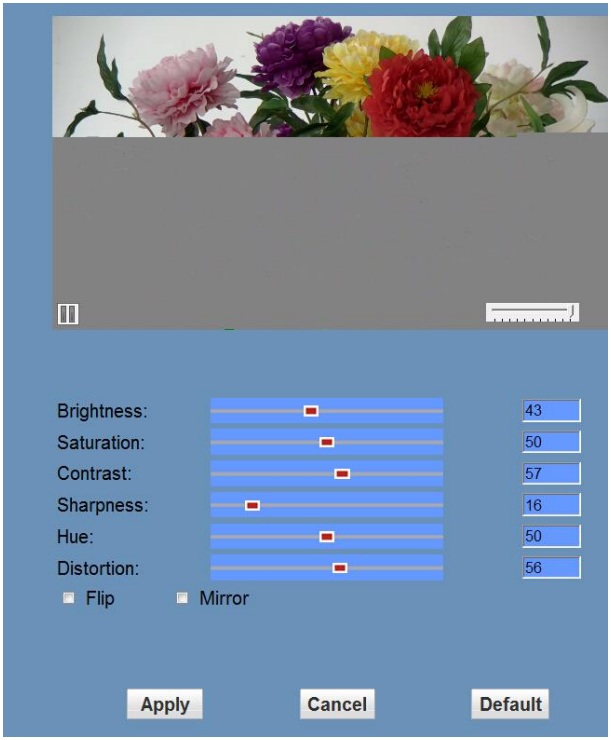
8) I key frame interval:

Set interval between 2 I frame, the bigger interval is, the response will be lower from viewing window.

9) dFluctuate level

Restrain the fluctuation magnitude of variable rate, grade 1 ~ 6

6.3 Image Setup,please click "Image"



1) Brightness

Image bright 0~100, slider control, on the right shows the corresponding numerical. Default 43.

2) Saturation

Saturation 0~100, slider control, on the right

shows the corresponding numerical. Default 50.

3) Contrast

Contrast0~100, slider control, on the right shows the corresponding numerical. Default 57.

4) Sharpness

Sharpness0~100, slider control, on the right shows the corresponding numerical. Default 16.

5) Hue

Hue 0~100, slider control, on the right shows the corresponding numerical. Default 50.

6) Distortion

Adjusted the wide-angle lens image distortion occurs, controllable range 0 ~ 100, right shows the corresponding numerical. Default 0.

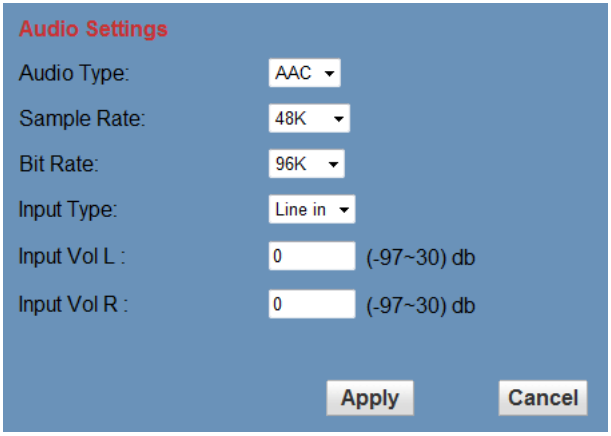
7) Flip & Mirror

Tick Flip to realize image upside down, tick mirror to realize image around the mirror. Default not tick.

8) Button

Adjusting the parameters, press "apply" button to save, press "cancel" button to cancel the adjustment of the parameters, press "default" button obtain the default value.

6.4 Audio Setup,please click “Audio”



1) Audio Type

Audio type AAC

2) Sample rate

Sample rate 44.1 K and 48 K,selectable.

3) Bit rate

Bit rate 96k,128k,256k,selectable

4) Input Type

line in only

5) Input VolL

The volume of the left channel

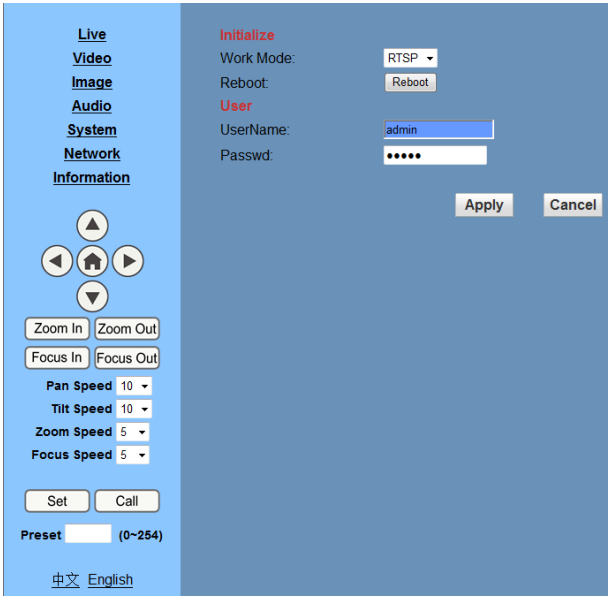
6) Input VolR

The volume of the right channel

7) Button

Press "apply" button to save parameters, press "cancel" button to cancel parameter

6.5 System Setting, please click “System”



1) Work Mode

Work Mode RTSP

2) Reboot

Click the "Reboot" button, system restart.

3) User and password

The user can modify the password (letters and Numbers only)

4) Apply / Cancel

Modify password and click the "apply" button to the login page, press "cancel" button to cancel password change.

6.6 Network Setting,please click “Network”

1) Lan Settings

Default the IP address is 192.168.100.88, The MAC address can be modified.

2) Port Settings

IP address identifies the network device, the device can run multiple web applications, each network program using network port to transmit data, so data transmission to be carried out between the port and port. Port setting is to set up WEB SERVER program using which port to transmit. When port mapping, need to be consistent with the port number(default port: 80)

3) RTSP Port

Network camera support RTSP protocol, use the

VLC tools broadcast.

4) TCP Port

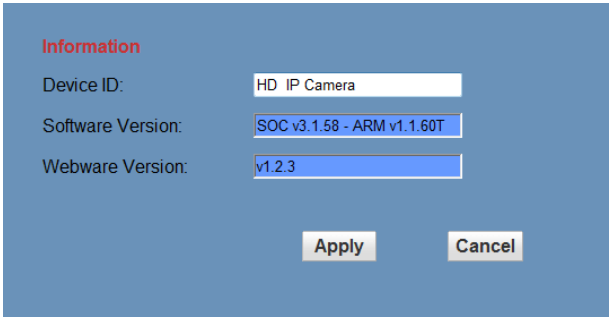
Support TCP protocol, default port: 5678.

5) Apply / Cancel

Modify network parameters then press "Apply" button to modify network parameters, press "Cancel" button to cancel network parameters.

6.7 Device Information,please click "information"

Show the current device information, as shown below.



7 Download the Network upgrade program

If you need the camera upgrade program, please contact the manufacturer.

Maintenance and Troubleshooting

Camera Maintains

- If camera will not be used for a long time, please turn off the power switch, disconnect AC power cord of AC adaptor to the outlet.
- Use soft cloth or tissue to clean the camera cover.
- Please use the soft dry cloth to clean the lens. If the camera is very dirty, clean it with diluted neuter detergent. Do not use any type of solvents, which may damages the surface.

Unqualified Application

- No shooting extreme bright object for a long period of time, such as sunlight, light sources, etc.
- No operating in unstable lighting conditions, otherwise image will be flickering.
- No operating close to powerful electromagnetic radiation, such as TV or radio transmitters, etc.

Troubleshooting

Image

- No image

  1. Check whether the power cord is connected, voltage is OK, POWER lamp is light.
  2. Check whether the camera can self-test after startup.
  3. Check the BOTTOM switch and make sure the two switches are both set OFF.
  4. Check video cable is connected correctly.

- Abnormal display of image

  Check video cable is connected correctly.

- Image dithering even at widest zoom position

  1. Check whether camera is fixed correctly.
  2. Make sure if there are something like vibration machine or other things nearby.

- IE browser not video image IE

  When IPC first time accessed by Internet Explore (IE or other web browser),must install plug-in.
  User first time use this camera by internet (only for new user), must install a player software (VLC). Please go to VLC webside http://www.videolan.org/vlc,download and lnstall VLC (player software). After installation,login again, will show image, the video image is displayed.

- Unable to access IP Camera by IE browser.

1. Access to the network with PC can test whether network works, in this way to get rid of cable failure, network failure caused by PC virus until the PC can be Ping.
2. Disconnect IP Camera with network, IP Camera and PC are connected, according to the proper operations to re-set the IP address.
3. Check the server's IP address and subnet mask and gateway address.
4. MAC addresses conflict.
5. Web port is occupied by other devices.

- When modify IP address in an incorrect way cause the wrong IP address or forget web passwords,

  press the IR remote controller "[*]+[#]+[Manual]" to restore the default value (Default IP: 192.168.100.88 Default username: admin Default password: admin)

Control

- IR remote controller cannot control the camera

  1. Change the battery
  2. Check the camera working mode.
  3. Check IR address of the Remote Commander is set correctly.

- Serial communication cannot control the camera

  1. Check the camera working mode.
  2. Check control cable is connected correctly.

Warranty

Thank you for your interest in the products of AVIPAS Inc.

This Limited Warranty applies to HD Conference Camerapurchased from AVIPAS INC.

This Limited Warranty covers any defects in material under normal use during the Warranty Period.

During the Warranty Period, AVIPAS Inc. will repair or replace, at no charge and products that proves defective because of improper material, under normal use and maintenance.

The Warranty Period for HD Conference Camera purchased from AVIPAS Inc. is Two year from the date of purchase.

This Limited Warranty does not cover any problem that is caused by:

- conditions, malfunctions or damage not resulting from defects in material ????

To obtain warranty service, you must first contact us to determine the problem and the most appropriate solution for you.

Contact Details:

AViPAS Inc.

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San Jose, CA 95129

Phone: 1-844-228-4727

Fax: (408) 228-8438

Email: info@avipas.com

Website: http://www.avipas.com

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2015/6